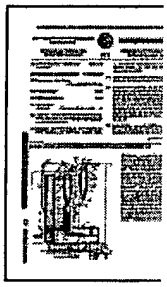
Title: **WO0133140A1: METHOD AND APPARATUS FOR COMBUSTION OF R CARBON IN FLY ASH**[French]

Derwent Title: System for removal of carbon from fly ash comprises a dilute phase reactor defining a reactor chamber, an ash capture connected to the reactor chamber for receiving exhaust air flow and an accumulator [Derwent Record]



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Abstract: A system for combustion and removal of residual carbon within fly ash particles (F) in which the fly ash particles are fed into a particulate bed (40) within a reactor chamber (21). The fly ash particles are subjected to heat and motive air (37) such that as the fly ash particles pass through the particulate bed, they are heated to a sufficient temperature to cause the combustion of the residual carbon within the particles. The fly ash particles thereafter are conveyed in a dilute phase (28) for further combustion through the reactor chamber away from the particulate bed and exhausted to an ash capture (45). The fly ash is then separated from the exhaust air that conveys the ash in its dilute phase with the air being further exhausted and the captured fly ash particles being fed to a feed accumulator (80) for re-injection to the reactor chamber or discharged for further processing. [French]

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Description ± Expand description

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± **FIELD OF THE INVENTION**
± **BACKGROUND**
± **SUMMARY OF THE INVENTION**
± **BRIEF DESCRIPTION OF THE FIGURES**
± **DETAILED DESCRIPTION**

First Claim: Show all claims 1.A system for removal of carbon from fly ash, comprising: A dilute phase reactor defining a reactor chamber including a particulate bed in which particles of fly ash are received, and having a heating source for heating said reactor chamber; wherein as the particles of fly ash are heated, the carbon therein is heated to a combustion temperature, with the particles of fly ash thereafter conveyed from said particulate bed through said reactor chamber in a dilute phase; an ash capture connected to said reactor chamber for receiving an exhaust air flow containing particles of fly ash in their dilute phase for collecting fly ash particles from 1 5 the exhaust air flow; and an accumulator that receives and accumulates the collected particles of fly ash from said accumulator and connected to said reactor for supplying a flow of fly ash particles to said particulate bed. †

Other Abstract Info: None